GE
Measurement & Control Solutions

X-ray Tubehousing

ISOVOLT 160 MC2

Applications

- Film exposures of circumferential welds of nozzles, pipes and vessels
- Panoramic-type exposure technique

Features

- Panoramic radiating tube, unipolar, grounded anode, water cooled
- Metal-ceramic tube with cone anode
- Compatible with X-ray equipment of the ISOVOLT series
- Produced under ISO 9001 certified quality management system

Options

- Quick-lock cable flange
- Collimator attachments

GE imagination at work

Technical Data

Maximum tube voltage	160 kV
Maximum anode dissipation	1000 W
Tube current at max. tube voltage	6.0 mA
Focal spot size (EN 12 543)	0.4 mm x 4.0 mm (at radiated angle of 0°)
Former focal spot designation	0.3 x 3.0
Emergent beam angle	40°
Inherent filtration	0.5 mm Ti + 2 mm Al + 2 mm H_2O
Circumferential density	+/- 5%, averaged over 6 films attached on the circumference of a test-tube (tube, FFD 80 mm), exposure with 80 kV, 1 mA, 6 s on Dental film, prefilter: 1.5 mm Cu + 4 mm Al
High voltage connection	Plug socket for rubber cone plug R24 with optional quick-lock cable flange
Cooling water flow rate	min. 4 l/min
Cooling water temperature	max. 40° C
Cooling water pressure	max. 6 bar
Weight (with optional cable quick-lock)	8 kg (17.6 lbs)
Dimensions	see drawing

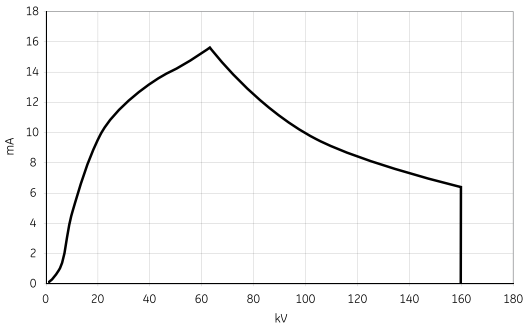
Dose Rate within the Central Beam

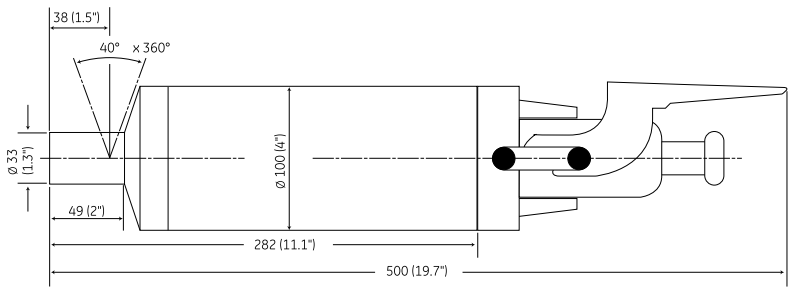
The generation of radiation in an X-ray tube solely depends on the operation values, not on the make. The dose rate relevant in practice and suitable for calculations of radiation protection values is defined by national standards;

thus the dose rate of the tubehousing ISOVOLT 160 MC2, measured at a distance of 1 m from the focal spot, amounts to 1.22 Sv/h at maximum tube voltage and maximum anode dissipation.

This value must not be used to assess biological effects.

The dose rate of the leakage radiation is < 2.5 mSv/h (250 mrem/h).





Note: centerline (orthogonal to tube-axis) does not represent maximum intensity

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GEIT-30031EN (03/11)

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